

Waterfront Maintenance Note Number 17

Electromagnetic Compatibility (EMC) Survey Request Procedure

- Ref: (a) NAVSEA STD 407-5291780, Standard EMI Survey Procedures
(b) NAVSEA 407-6372953C, CG 47 Class Electromagnetic Control Topside Arrangement Drawing, dated 02/01/03
(c) Hazards Of Electromagnetic Radiation To Personnel (HERP) And Fuel (HERF) Survey of CG 47 Class Baseline 3 and 4 Ships, dated 07/16/1999
(d) Applicable Ships CSOSS Topside Arrangement Drawings

1. Purpose: To establish procedures for scheduling shipboard Electromagnetic Compatibility (EMC) Survey IAW refs (a-d).

2. Background: NAVSEA 623 is responsible for EMC certification onboard new construction ships, ships undergoing industrial availabilities and ships receiving new systems. NEC ET-1419 has been established by NAVSEA 623 for Regional Maintenance Centers to provide technical assistance to ship's force in maintaining EMC. EMC surveys are performed by SERMC for the purpose of testing various ship's systems for Electro Magnetic Interference (EMI) degradation. During an EMC survey, EMI problems are investigated and evaluated for correction by installation of applicable EMI fixes which are then installed.

3. Procedure:

a. Ship's Force (S/F) shall:

- 1) Submit an OPNAV 4790/2K, with primary and alternate dates, requesting SERMC to conduct an EMC assessment.
- 2) Schedule EMC assessment so it does not coincide with evolutions that restrict either antenna radiation or personnel movement about the ship. EMC surveys require 4 to 5 days to include 1 to 2 days aloft. Unless otherwise requested, surveys will normally be accomplished during the last week of an availability in order to reduce the impact to shipboard systems.
- 3) Provide two dedicated personnel to facilitate EMC visit, preferably one IT and one ET. These personnel will receive valuable training from the EMC

specialist, correct minor discrepancies, and serve as safety observers for the aloft evolutions. In addition, these personnel will receive guidance for submission of work orders to SERMC on identified discrepancies that are beyond ship's force capabilities.

b. SERMC shall:

- 1) Coordinate all crane services as required.
- 2) Perform EMI survey IAW SERMC Formal Work Package.
- 3) Forward the official report by mail to the ships Commanding Officer approximately 2 weeks after survey visit is completed.

4. Points of Contact: For further guidance and information, contact SERMC Antenna Shop (code 952) at 904-270-5126 x3054.